AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior listings and versions of claims in this application.

1. (Currently Amended) A method for forming an assembly for transfer of a useful layer comprising:

forming a useful layer on a first support having an interface therebetween, and a residual material on a portion of the first support to form the assembly; and

processing the assembly to attenuate bonding between the useful layer and the first support caused by the residual material;

wherein processing of the assembly comprises forming a peripheral recess on the first support so that the residual material does not contact the useful layer.

- 2. (Original) The method of claim 1 wherein the useful layer is weakly bonded to the support to facilitate detachment.
- 3. (Original) The method of claim 1 wherein the interface is a detachable interface layer provided on the first support before forming the useful layer.
- 4. (Original) The method of claim 1 which further comprises:
 affixing a free face of the useful layer to a second support; and
 detaching the useful layer at the interface to transfer the useful layer to the second
 support.
- 5. (Original) The method of claim 4 which further comprises detaching the useful layer by using at least one of tension forces, bending forces and shear stress forces.
- 6. (Original) The method of claim 4 which further comprises directing at least one of a thin blade or a jet of fluid to the interface layer to detach the useful layer.
- 7. (Original) The method of claim 1 wherein processing the assembly comprises removing residual material.
- 8. (Original) The method of claim 7 which further comprises removing at least a portion of the first support that is in contact with the removed residual material.

- 9. (Original) The method of claim 7 wherein removing residual material comprises removing at least a portion of a peripheral zone of residual material covering an edge of the interface.
- 10. (Original) The method of claim 9 wherein the peripheral zone is removed by at least one of splitting or etching.
- 11. (Original) The method of claim 10 wherein the peripheral zone is removed by etching and which further comprises masking the useful layer prior to etching.
- 12. (Original) The method of claim 1 wherein processing of the assembly comprises forming at least one cut or separating channel between a free surface of the useful layer and the interface to separate the useful layer from the residual material.
- 13. (Original) The method of claim 12 wherein the separating channel is cut by using at least one of a saw splitting technique, a laser splitting technique, and an ion beam splitting and masked chemical etching technique.
- 14. (Original) The method of claim 12 wherein processing of the assembly comprises forming a plurality of cuts or separating channels between a free surface of the useful layer and the interface to separate the useful layer from the residual material and to form a plurality of useful layer islets.
 - 15. (Original) The method of claim 14 which further comprises: affixing free faces of the islets to a second support; and detaching a majority of the islets at the interface.
- 16. (Original) The method of claim 15 which further comprises detaching the islets by using at least one of tension forces, bending forces and shear stress forces.
 - 17. (Original) The method of claim 15 wherein the islets are rectangular.

Claim 18. (Cancelled)

- 19. (Currently Amended) The process of claim [[18]] 1, wherein the width and depth of the peripheral recess is sufficient to accommodate the volume of residual material resulting from formation of the useful layer.
- 20. (Original) The method of claim 1 which further comprises using full wafer epitaxy to deposit at least a portion of the useful layer.
- 21. (Original) The method of claim 20 wherein the useful layer comprises a seed layer for epitaxial growth and at least one epitaxial layer.
- 22. (Original) The method of claim 21 wherein the seed layer is made of at least one of silicon carbide, sapphire, gallium nitride, silicon and aluminum nitride.
- 23. (Original) The method of claim 21 wherein the epitaxial layer is formed from one or more metal nitrides.
- 24. (Original) The method of claim 1 wherein the first support is made from at least one of a semiconductor, a semiconducting or semiconductive carbide, and an insulator material.
- 25. (Original) The method of claim 1 which further comprises providing the interface by at least one of implanting gas species, forming a porous layer that can be attacked chemically, and bonding a detachable layer to the first support before forming the useful layer by using a controlled molecular bonding process.

Claims 26. to 28. (Cancelled)

29. (New) A method for forming an assembly for transfer of a useful layer comprising:

forming a peripheral recess on a support; and

forming a useful layer on the support while also forming a residual material on a portion of the support to form the assembly;

wherein the peripheral recess has a width and depth sufficient to accommodate the volume of residual material resulting from formation of the useful layer so that the residual material does not contact the useful layer.